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- The Fourth International Conference on the Networked Digital Technologies (NDT 2012)
- The Fifth International Conference on the Applications of Digital Information and Web Technologies (ICADIWT 2012)
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Editorial

This issue papers address varied themes and topics in many sub-domains in systems and web research! In the first paper on “*A new position based Fitness Evaluation for Genetic Algorithm*”, the authors *Vijayalakshmi, Ayyappan* and *Annaram* have proposed an approach for fitness evaluation of Genetic Algorithm. They have assigned fitness to each gene’s position to compute the strength of a chromosome. They have tested their approach and found that the strength of new fitness approach increases in fitness in each iteration and efficient. They have codified the potential applications of the approach including search techniques and machine learning.

Text mining now has many newer models in order to achieve high applications in text processing. *Marcus V. C. Guelpele, Ana Cristina Bicharra Garcia* and *António Horta Branco* in their paper on “*The Cassiopeia Model: A study with other algorithms for attribute selection in text clusterization*” have proposed a study of algorithms used for attribute selection in text clusterization in the scientific literature and for selection of attribute they used the Cassiopeia model. They are able to record significant contributions including the use of summarized texts as an entrance in pre-processing stage of clusterization, language independence with the use of stop words. They addressed the treatment of high dimensionality problem also. They tried to achieve an improvement in the measurement of clusters as well as to solve the problem of high dimensionality.

Log files provide increasing support to ease the complexity in computer systems. However, the systems can easily create larger amount of data for system administrators to manage as *Russel W. Havens, Barry Lunt* and *Chia-Chi Teng* view in their paper on “*Log File Filtering with Off-the-shelf Naïve Bayesian Content Filters*”. Their study tests the effectiveness of three off-the-shelf Bayesian spam email filters (SpamAssassin, SpamBayes and Bogofilter) for effectiveness as log entry classifiers. They have tested the filters at a micro level.

The performance of web depends on the effectiveness of web servers. In the paper on “*Application of Generalized Confidence Interval in the Study of Web Performance*” *Dais George, Pit Pichappan* and *Sebastian George* presented a method useful for the system engineer to improve the service performance of a Web server through session-based Web workload, the best indicator of the users perception of the Web quality. They have used the Pareto Type I distribution for testing the web server performance. They further shown how the probability and generalized confidence interval of probability can be used for improving the service performance of a Web server.

In this issue. we have limited the number of papers to just four as the papers are large in size and content is descriptive. We believe that the papers published in this issue reflect the depthness and originality in the systems and web research.

Editors